

**CLAIMS:**

What is claimed is:

1. A method for dynamically monitoring and linking cross-process/cross-thread transactions in a bytecode injected application, the method comprising the computer implemented steps of:

inserting a bytecode inserted probe into the bytecode injected application, wherein the bytecode inserted probe detects a correlating token in an inbound request, retrieves the correlating token and dynamically determines if the inbound request is a child of an out of process transaction;

responsive to a determination that the inbound request is a child of an out of process transaction, recording the inbound request; and

linking the inbound request to the out of process transaction.

2. The method of claim 1, wherein the correlating token is passed in the inbound request by attaching the correlating token to one of an HTTP request, an outbound JMS message, a Common Object Request Broker Architecture (CORBA) message, and a Simple Object Access Protocol (SOAP) header of a web service request.

3. The method of claim 1, wherein the bytecode inserted probe detects the correlating token in the inbound request using a TransactionInfo object.

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4. The method of claim 1, wherein the correlating token includes a transaction monitoring policy.

5. The method of claim 4, wherein the transaction monitoring policy defines whether the inbound request should be recorded.

6. The method of claim 1, wherein the step of linking the inbound request to the out of process transaction is performed by a transaction performance monitor.

7. The method of claim 1, further comprising:  
having the bytecode inserted probe determine if the inbound request is a root transaction.

8. The method of claim 1, further comprising:  
having a transaction performance monitor determine if the inbound request is a root transaction.

9. The method of claim 7, wherein the inbound request is a root transaction if the bytecode inserted probe fails to locate the correlating token within a container.

10. The method of claim 1, wherein the bytecode inserted probe retrieves the correlating token from the inbound request while the bytecode inserted probe runs in-line with the inbound request.

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11. A data processing system for dynamically monitoring and linking cross-process/cross-thread transactions in a bytecode injected application, comprising:

means for inserting a bytecode inserted probe into the bytecode injected application, wherein the bytecode inserted probe detects a correlating token in an inbound request, retrieves the correlating token and dynamically determines if the inbound request is a child of an out of process transaction;

means for recording the inbound request in response to a determination that the inbound request is a child of an out of process transaction; and

means for linking the inbound request to the out of process transaction.

12. The data processing system of claim 11, wherein the correlating token is passed in the inbound request by attaching the correlating token to one of an HTTP request, an outbound JMS message, a Common Object Request Broker Architecture (CORBA) message, and a Simple Object Access Protocol (SOAP) header of a web service request.

13. The data processing system of claim 11, wherein the bytecode inserted probe detects the correlating token in the inbound request using a TransactionInfo object.

14. The data processing system of claim 11, wherein the correlating token includes a transaction monitoring policy.

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15. The data processing system of claim 14, wherein the transaction monitoring policy defines if the inbound request should be recorded.

16. The data processing system of claim 11, wherein the means for linking the inbound request to the out of process transaction is performed by a transaction performance monitor.

17. The data processing system of claim 11, further comprising:

having the bytecode inserted probe determine if the inbound request is a root transaction.

18. The data processing system of claim 11, further comprising:

having a transaction performance monitor determine if the inbound request is a root transaction.

19. The data processing system of claim 17, wherein the inbound request is a root transaction if the bytecode inserted probe fails to locate the correlating token within a container.

20. The data processing system of claim 11, wherein the bytecode inserted probe retrieves the correlating token from the inbound request while the bytecode inserted probes runs in-line with the inbound request.

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21. A computer program product in a computer readable medium for dynamically monitoring and linking cross-process/cross-thread transactions in a bytecode injected application, comprising:

first instructions for inserting a bytecode inserted probe into the bytecode injected application, wherein the bytecode inserted probe detects a correlating token in an inbound request, retrieves the correlating token and dynamically determines if the inbound request is a child of an out of process transaction;

second instructions for recording the inbound request in response to determining that the inbound request is a child of an out of process transaction; and

third instructions for linking the inbound request to the out of process transaction.

22. The computer program product of claim 21, wherein the correlating token is passed in the inbound request by attaching the correlating token to one of an HTTP request, an outbound JMS message, a Common Object Request Broker Architecture (CORBA) message, and a Simple Object Access Protocol (SOAP) header of a web service request.

23. The computer program product of claim 21, wherein the bytecode inserted probe detects the correlating token in the inbound request using a TransactionInfo object.

24. The computer program product of claim 21, wherein the correlating token includes a transaction monitoring policy.

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25. The computer program product of claim 24, wherein the transaction monitoring policy defines whether the inbound request should be recorded.

26. The computer program product of claim 21, wherein the instructions for linking the inbound request to the out of process transaction is performed by a transaction performance monitor.

27. The computer program product of claim 21, further comprising:

fourth instructions for having the bytecode inserted probe determine if the inbound request is a root transaction.

28. The computer program product of claim 21, further comprising:

fourth instructions for having a transaction performance monitor determine if the inbound request is a root transaction.

29. The computer program product of claim 27, wherein the inbound request is a root transaction if the bytecode inserted probe fails to locate the correlating token within a container.

30. The computer program product of claim 21, wherein the bytecode inserted probe retrieves the correlating

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token from the inbound request while the bytecode inserted probes runs in-line with the inbound request.